United States Department of Agriculture
Natural Resources Conservation Service

OMB No. 0578-0030
NRCS-PDM-20

DAMAGE SURVEY REPORT (DSR)
Emergency Watershed Protection Program – Recovery

Section 1A
Date of Report: 03/03/2006

NRCS Entry Only
Eligible: YES X NO __
Approved: YES X NO __
Funding Priority Number (from Section 4) 2e
Limited Resource Area: YES _ NO X

DSR Number: 019-005-029R Project Number: Gum Gully – W-6 and L-1

Section 1B Sponsor Information

Sponsor Name: Gravity Drainage District 2, Ward 7

Address: P.O. Box 866

City/State/Zip: Vinton, Louisiana 70668

Telephone Number: (337) 589 7536 Fax: (337) 589 0979

Section 1C Site Location Information
County: Calcasieu Parish State: Louisiana Congressional District: 07

Mainstem W-6: Start Latitude: N30.15773943 Longitude: W93.62267490 End Latitude: ~~N30.17211590~~ 30.18690 Longitude: ~~W93.2339415~~ -93.6039
Lateral L-1: Start Latitude: N30.153858945 Longitude: W93.62346062 End Latitude: N30.15606070. Longitude: W93.63036068

UTM Coordinates: W-6 Start: 15-440010E, 15-3336259N End: ~~15-439979E, 15-3338022N~~
L-1 Start: 15-439871E, 15-3336084N End: 15-438870E, 15-3336783N
Section: 19 and 30 Township: 10 S Range: 12 W

Drainage Name: Gum Gully (W-6) and L-1

Reach: Mainstem -W-6 starting downstream of I-10 at point W-6I and ending upstream of ~~Hwy 90 at point W-6Q Open~~ LEO BREAUX ROAD, a distance 0f ~~5290~~ 14,450 ft. and Lateral L-1 starting at the confluence with Mainstem-W-6 (Point W-6L-1) and ending upstream at Point W-6L-1E, a distance of 2,625 ft.

Damage Description: Downed trees, branches and other debris are in the channel resulting in partial blockage of the drainage and causing increased likelihood of flood damages to bridges at Interstate 10, Highway 90, rail roads, and homes.

Section 1D Site Evaluation
All answers in this Section must be YES in order to be eligible for EWP assistance.

Site Eligibility	YES	NO	Remarks
Damage was a result of a natural disaster?*	X		Hurricane Rita wind and storm damage
Recovery measures would be for runoff retardation or soil erosion prevention?*	X		Reduce upstream flooding, streambank erosion, and scour erosion
Threat to life and/or property?*	X		Reduce flooding and debris accumulation around bridges
Event caused a sudden impairment in the watershed?*	X		Downed trees and other debris have created blocks and increased flooding severity and frequency.
Imminent threat was created by this event?**	X		Flood damage and damages to major bridges from accumulated debris
For structural repairs, not repaired twice within ten years?**	X		No evidence of repairs related to flooding or storm damages in past several years
Site Defensibility			
Economic, environmental, and social documentation adequate to warrant action? (Go to pages 3, 4, 5 and 6 ***)	X		See attached documentation
Proposed action technically viable? (Go to Page 9 ***)	X		See attached documentation

Have all the appropriate steps been taken to ensure that all segments of the affected population have been informed of the EWP program and its possible effects? YES **X** NO __
Comments: GDD No. 2 Ward 7 has been involved in plans to remove debris

* Statutory
** Regulation
*** DSR Pages 3 through 6 and 9 are required to support the decisions recorded on this summary page. If additional space is needed on this or any other page in this

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Section 1E Proposed Action

Describe the preferred alternative from Findings: Section 5 A:

Remove downed trees, branches, and other debris from one side of channel and burn and bury debris in open pasture areas adjacent to or in close proximity to the channel. Work on the mainstem of Gum Gully (W-6) will be accomplished from the east side of the channel from the start point (W-6I) upstream to Hwy 90 and then from the west side of the channel beginning at Hwy 90 upstream to the end point ~~(W-6Q Open)~~ LEO BREAUX ROAD. Work on Lateral L-1 will be accomplished from the west and south side of the channel. This alternative will avoid several wooded areas, protect most natural riparian habitat and provide the best opportunities for burning and burying debris in open pasture areas.

Total installation cost identified in this DSR: Section 3: $ ~~77,562.00~~ 146,847.00 BAS

Section 1F NRCS State Office Review and Approval

Reviewed By: _____ Date Reviewed: 3/10/06
State EWP Program Manager

Approved By: _____ Date Approved: _____
State Conservationist

PRIVACY ACT AND PUBLIC BURDEN STATEMENT

NOTE: The following statement is made in accordance with the Privacy Act of 1974, (5 U.S.C. 552a) and the Paperwork Reduction Act of 1995, as amended. The authority for requesting the following information is 7 CFR 624 (EWP) and Section 216 of the Flood Control Act of 1950, Public Law 81-516, 33 U.S.C. 701b-1; and Section 403 of the Agricultural Credit Act of 1978, Public Law 95-334, as amended by Section 382, of the Federal Agriculture Improvement and Reform Act of 1996, Public Law 104-127, 16 U.S.C. 2203. EWP, through local sponsors, provides emergency measures for runoff retardation and erosion control to areas where a sudden impairment of a watershed threatens life or property. The Secretary of Agriculture has delegated the administration of EWP to the Chief or NRCS on state, tribal and private lands.

Signing this form indicates the sponsor concurs and agrees to provide the regional cost-share to implement the EWP recovery measure(s) determined eligible by NRCS under the terms and conditions of the program authority. Failure to provide a signature will result in the applicant being unable to apply for or receive a grant the applicable program authorities. Once signed by the sponsor, this information may not be provided to other agencies. IRS, Department of Justice, or other State or Federal Law Enforcement agencies, and in response to a court or administrative tribunal.

The provisions of criminal and civil fraud statutes, including 18 U.S.C. 286, 287, 371, 641, 651, 1001; 15 U.S.C. 714m; and 31 U.S.C. 3729 may also be applicable to the information provided. According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0578-0030. The time required to complete this information collection is estimated to average 117/1.96 minutes/hours per response, including the time for reviewing instructions, searching existing data sources, field reviews, gathering, designing, and maintaining the data needed, and completing and reviewing the collection information.

USDA NONDISCRIMINATION STATEMENT

"The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.)

Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination write USDA, Director of Civil Rights, 1400 Independence Avenue, SW, Washington, DC 20250-941 0 or call (800)795-3272 (voice) or (202)720-6382 (TDD). USDA is an equal opportunity provider and employer.

Civil Rights Statement of Assurance

The program or activities conducted under this agreement will be in compliance with the nondiscrimination provisions contained in the Titles VI and VII of the Civil Rights Act of 1964, as amended; the Civil Rights Restoration Act of 1987 (Public Law 100-259); and other nondiscrimination statutes: namely, Section 504 or the Rehabilitation Act of 1973, Title IX of the Amendments of 1972, the Age Discrimination Act of 1975, and the Americans with Disabilities Act of 1990. They will also be in accordance with regulations of the Secretary of Agriculture (7 CFR 15, 15a, and 15b), which provide that no person in the United States shall on the grounds of race, color, national origin, gender, religion, age or disability, be excluded from participation in, be denied the benefits of, or otherwise subjected to discrimination under any program or activity receiving Federal financial assistance from the U.S. Department of Agriculture or any agency thereof.

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Section 2 Environmental Evaluation

2A Resource Concerns	2B Existing Condition	2C Alternatives and Effects		
		Proposed Action	**No Action**	**Alternative**
		Remove tree logs and debris from one side of channel and burn/bury onsite. See Sec. 1E for specific information	**Leave tree logs and debris in channel**	**Remove tree logs and debris from both sides of channel and burn and bury on site.**
		2D Effects of Alternatives		
Soil				
Bank Erosion	Stable except for exposed soil around uprooted trees on stream bank	Cause temporary increase in bank erosion from removal activities on access side of channel.	Erosion from root mass will stabilize, but flooding will cause more bank erosion and undercutting	Cause temporary increase in bank erosion from removal activities on both sides of channel.
Compaction	No compaction	Heavy equipment will moderately compact soil at access points on one side	No compaction	Heavy equipment will moderately compact soil at access points on both sides.
Water				
Flooding	Property /bridges upstream of debris blockage is subject to damages from flooding after future heavy rainfall	Upstream flooding will be reduced and damages to property/bridges will be minimized from heavy rainfall events	Property upstream of debris blockage will continue to be subject to damages from future heavy rainfall events	Upstream flooding will be reduced and damages to property will be minimized from future heavy rainfall events
Inadequate outlets	Debris is blocking outlets	Outlets will be opened, capacities will be increased and flooding will be reduced	Debris will continue to accumulate and further reduce outlet capacities	Outlets will be opened, capacities will be increased and flooding will be reduced
Excessive Sediments and turbidity	Stream flow is minimal and no sediment problems will occur until future heavy rainfall events. Water in channel is turbid from sediment	Disturbance from heavy equipment and removal of debris will cause short term increase in sediment and turbidity, but will reduce long term impacts.	Sediments and turbidity will increase as a result of stream bank erosion and scour damage following future heavy rainfall events.	Disturbance from heavy equipment and removal of debris will cause short term increase in sediment and turbidity, but will reduce long term impacts. Sewage problems will remain
Stream health (SVAP))	4.6 (Poor Conditions)	4.3 (Poor Conditions)	4.2 (Poor Conditions)	4.1 (Poor Conditions)
Air				
Particulate Matter less than PM 10	No particulate matter is being generated by debris in channel	Will cause temporary increase in particulate matter above PM 10 as result of smoke from burning/burying , but will fall below10 after work completed	No change in particulate matter	Will cause temporary increase in particulate matter above PM 10 as result of smoke from burning/burying , but will fall below10 after work completed
Plant				
Productivity, Health and Vigor of Riparian Vegetation	Riparian trees have been blown down as result of wind. Natural regrowth. will occur where canopy has been opened to sun.	Some standing trees on access side of channel in wooded area will be removed for access and hauling debris to burn/bury sites. Natural regeneration will restore sites.	No trees will be disturbed by removal.	Some standing trees on both sides of channel will be removed for access and hauling debris. Natural regeneration will restore disturbed areas
Productivity, and Health of Aquatic Vegetation	Aquatic plants are limited because of turbidity	Removal of debris will not impact aquatic vegetation.	Stream aquatic growth will remain poor with limited vegetation	Removal of debris will not impact aquatic vegetation.
Animal				
Inadequate Cover/Shelter for Stream Fisheries (also see SVAP)	Instream debris has increased and overhead cover has decreased as result of wind damage, but remains fair. Turbidity limits aquatics	Debris removal will reduce some instream cover, and access will reduce some overhanging cover, but adequate amounts will remain.. Overhanging cover will be restored by natural tree regeneration	Poor water quality caused by sewage and lack of water will remain as limiting factors for fisheries	Poor water quality caused by sewage and limited water will remain. Debris removal will have minimal adverse impact
Inadequate Cover/Shelter for Wildlife along Stream Corridor	Riparian forest buffers provides good cover in wooded segments, but is limited where pasture and lawns have replaced natural vegetation.	There will be a moderate reduction in cover along access side of channel where trees and understory are removed. Natural regeneration will restore cover.	Riparian forest buffers will remain “as is” in remaining undeveloped stream segments, but will remain limited in open pasture and lawn areas	There will be a moderate reduction in cover along both sides of channel where trees and understory are removed. Natural regeneration will restore cover.
Other				
Aesthetics	Extensive downed and broken trees has somewhat diminished the landscape	Access will reduce the amount of forest cover on access side in wooded areas, but will not noticeably impact the landscape	The landscape will remain the same except for any changes that may be caused by flooding	Access will reduce the amount of forest cover on access side in wooded areas, but will not noticeably impact the overall
Mosquito and Insect Vectors	Most channel water is relatively deep and providing minimal mosquito habitat	The number of shallow stagnant pools providing habitat for mosquito breeding following floods will be reduced.	Shallow pools following floods will continue to provide habitat for mosquito breeding .	The number of shallow stagnant pools providing habitat for mosquito breeding following floods will be reduced.

Section 2E Special Environmental Concerns

Resource Consideration	Existing Condition	Alternatives and Effects		
		Proposed Action	No Action	Alternative
Clean Water Act Waters of the U.S.	Moderate Water Quality, High sediment, no obvious contaminats	Improved water quality. CWA 404 Permit required. Water Quality Certification possible.	Decreased water quality from flood induced sediment and erosion. Increased blockage and flooding	Improved water quality. CWA 404 Permit required. Water Quality Certification possible.
Coastal Zone Management Areas	N/A	N/A	N/A	N/A
Coral Reefs	N/A	N/A	N/A	N/A
Cultural Resources	Use FOTG guidance. State level review needed	Same as existing	Same as existing	Same as existing
Endangered and Threatened Species	Use FOTG guidance USFWS/LDWF list shows species in parish, but none are likely in project area	No impacts	No impacts	No impacts
Environmental Justice	Not a factor in this project area	Not a factor in this project area	Not a factor in this project area	Not a factor in this project area
Essential Fish Habitat	No essential fish habitat within this project area	No essential fish habitat within this project area	No essential fish habitat within this project area	No essential fish habitat within this project area
Fish and Wildlife Coordination	No stream modification proposed	Will coordinate if issues arise in CWA 404 permit application process	N/A	Will coordinate if issues arise in CWA 404 permit application process
Floodplain Management	Project boundary is within 100 year floodplain	Improve drainage and reduce level of flooding to pre hurricane conditions	N/A	If selected, project will improve drainage and reduce level of flooding to pre-storm conditions
Invasive Species	Few Chinese Tallow trees along channel in some segments	Will remove some invasive trees at access locations and allow increased control opportunities	Will likely increase	Will remove some invasive trees at access locations and allow increased control opportunities
Migratory Birds	Provides habitat for neotropical migrants	Slightly reduce habitat for neotropical migrants where trees are removed	Continue to provide same level of habitat	Slightly reduce habitat for neotropical migrants where trees are removed
Natural Areas	Use FOTG guidance. No natural areas identified in project area	Use FOTG guidance. No natural areas identified in project area	Use FOTG guidance. No natural areas identified in project area	Use FOTG guidance. No natural areas identified in project area
Prime and Unique Farmlands	Use FOTG guidance and soil survey. Lt soil occurs in project area. Present use is forestland and pasture.	Lt soil occurs in project area, but will not impact use as farmland.	Lt soil occurs in project area. Expected to remain in forestland and pasture. Increased flooding will likelihood of farming	Lt soil occurs in project area, but will not impact use as farmland.
Riparian Areas	Downed timber has reduced the quality of forested riparian habitat. Pasture/lawns has also infringed on habitat	Natural habitat will be reduced on one side in wooded areas, but most access is in previously cleared areas.	Downed timber and altered riparian area will remain until natural process restores habitat	Natural habitat will be reduced on both sides in wooded areas, but most access is in previously cleared areas.
Scenic Beauty	Use FOTG guidance. Downed timber has reduced aesthetics of stream and riparian areas	Stream aesthetics will be restored, Riparian habitat will not be noticeably impacted	Downed timber in stream and along riparian areas will continue to reduce aesthetics.	Stream aesthetics will be restored, Riparian habitat will not be noticeably impacted
Wetlands	Downed timber and debris has altered wetland functions and values	Removal of debris will restore nature wetland functions and values to pre-storm conditions	Wetland functions and values will remain altered.	Removal of debris will restore nature wetland functions and values to pre-storm conditions
Wild and Scenic Rivers	Use FOTG guidance. No listed streams affected by project	No impact on listed streams or rivers	No impact on listed streams or rivers	No impact on listed streams or rivers

Completed By: Steve Tully, Biologist Date: 03/02/06

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Section 2F Economic

This section must be completed by each alternative considered (attach additional sheets as necessary).

	Future Damages ($)	Damage Factor (%)	Near Term Damage Reduction
Properties Protected (Private)			
26 homes (see Market Value Worksheets 1, 2 &3)	$2,014,267	25%	$503,567
4 barns (see Market Value Worksheet 4)	$478,464	25%	$119,616
Fences (5000LF x $1.20/LF)	$6,000	20%	$1,200
Properties Protected (Public)			
Mott Road – 200 ft paving & 1 culvert	$2,000	50%	$1,000
Interstate 10 – 4 lanes, 3 bridges, 2 culverts	$1,920,000	50%	$960,000
US Highway 90 – 2 lanes, 200LF paving, 1 culvert	$16,000	50%	$8,000
Railroad – 200 feet of track, 1 wooden trestle	$30,000	50%	$15,000
Business Losses			
Major disruptions in business, industrial and personal			
Shipping and transportation.	$1,000,000	50%	$500,000
Other			
Utilities, buried and above-ground	$3,000	50%	$1,500
At least 3 buried oil/gas lines			
1 fiber optic cable, buried.			
		Total	$2,109,883
Net Benefits (The total of Economic Costs – the engineering cost estimate from Section 3)			~~$2,031,321~~

1,965,036 BAS

Completed By: Mark D. Conkling Date: March 02, 2006

Note: According to the Louisiana Department of Transportation and Development, the average daily vehicle count on US Highway 90 is 3,006 and on Interstate Highway 10 is 39,841. These counts were made in or near the project area. If damage to the bridges on these two highways causes the normal traffic to detour, each day of the detour would impact about 42,000 people from all demographic groups. See the attached report. The economic impact is beyond the scope of this survey.

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Section 2G Social Consideration

This section must be completed by each alternative considered (attach additional sheets as necessary).

	YES	NO	Remarks
Has there been a loss of life as a result of the watershed impairment?		X	
Is there the potential for loss of life due to damages from the watershed impairment?	X		
Has access to a hospital or medical facility been impaired by watershed impairment?	X		Flooding may temporarily make streets impassable.
Has the community as a whole been adversely impacted by the watershed impairment (life and property ceases to operate in a normal capacity)		X	
Is there a lack or has there been a reduction of public safety due to watershed impairment?	X		Flooding may restrict access for fire, police, ambulance and other emergency services.

Completed By: Mark D. Conkling Date: March 02, 2006

DSR NO: 019-005-029R

Section 2H Group Representation and Disability Information

This section is completed only for the preferred alternative selected.

Group Representation	*Census Block*	Number	*Affected*
American Indian/Alaska Native Female Hispanic			
American Indian/Alaska Native Female Non-Hispanic	2	0.63%	**0**
American Indian/Alaska Native Male Hispanic			
American Indian/Alaska Native Male Non-Hispanic			
Asian Female Hispanic			
Asian Female Non-Hispanic			
Asian Male Hispanic			
Asian Male Non-Hispanic			
Black or African American Female Hispanic			
Black or African American Female Non-Hispanic			
Black or African American Male Hispanic			
Black or African American Male Non-Hispanic			
Hawaiian Native/Pacific Islander Female Hispanic			
Hawaiian Native/Pacific Islander Female Non-Hispanic			
Hawaiian Native/Pacific Islander Male Hispanic			
Hawaiian Native/Pacific Islander Male Non-Hispanic			
White Female Hispanic	2	0.63%	**0**
White Female Non-Hispanic	155	49.05%	**35**
White Male Hispanic	3	0.95%	**1**
White Male Non-Hispanic0	154	48.74%	**35**
Total Group	316	100.00%	**71**

Census tract(s) Tract 35, Blocks 2002 & 2003; Tract 36, Blocks 3016, 3017 and 3990

Completed By: Mark D. Conkling Date: March 02, 2006

Note: Demographic information is from the 2000 US Census. See attached tables for details. The number of people directly affected were determined by dividing the total population by the total number of households, then multiply the quotient by the number of households in the affected area which results in number of people in the affected area. The totals were then reduced proportionately to maintain the representative profile.

316 people in the census blocks / 117 total households = 2.7 people/1 household
2.7 people / household x 26 households = **71 people in the affected area**.

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Section 2I. Required consultation or coordination between the lead agency and/or the RFO and another governmental unit including tribes:

Easements, permissions, or permits:

Access to channel from private properties will require easements/permission to be obtained by sponsor. Recommend consultation of contractor for Right of Way access to channel to accommodate equipment being used. Coordination will be handled by NRCS representative to reduce amount of impact to surrounding environment.

Will need CWA 404 permit and Water Quality certification possibly needed because of potential of removing roots masses and grubbing stumps.

Mitigation Description:

Access to remove debris from the Mainstem (W-6) and from Lateral L-1 will be from the one side minimize impacts to woodland and natural riparian habitats. This alternative will prevent impacts to several areas of mature timber along the channel buffers. Work on the mainstem of Gum Gully (W-6) will be accomplished from the east side of the channel from the start point (W-6I) upstream to Hwy 90 and then from the west side of the channel beginning at Hwy 90 upstream to the end point (W-6Q Open) . Work on Lateral L-1 will be accomplished from the west and south side of the channel. This alternative will avoid several wooded areas, protect most natural riparian habitat and provide the best opportunities for burning and burying debris in open pasture areas. Proposed action will help restore hydraulic function to downstream wetlands and reduce mosquito breeding areas and vector problems in adjacent floodplains. Action will be completed without interruption to reduce impacts to stream fisheries, wildlife, and local residents.

Agencies, persons, and references consulted, or to be consulted:

Corps of Engineers, New Orleans District
Louisiana Department of Environmental Quality
Louisiana Department of Wildlife and Fisheries
Calcasieu Parish Government

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Section 3 Engineering Cost Estimate

Completed By: Steve Garner (Revised BAS 3/15/06) Date: 03/02/06

This section must be completed by each alternative considered (attach additional sheets as necessary).

Proposed Recovery Measure (including mitigation)	Quantity	Units	Unit Cost ($)	Amount ($)
Mobilization and Demobilization	1	LS	5000	5000
Channel Obstruction Removal (Medium)	10490	LF	9.00	94,410
Channel Obstruction Removal (Light)	6585	LF	6.90	45,437
Seeding, Sprigging and Mulching	10	AC	200	2000
		Total Installation Cost (Enter in Section 1F)		146,847

Alternate Recovery Measure (including mitigation)	Quantity	Units	Unit Cost ($)	Amount ($)
Mobilization and Demobilization	1	LS	5000	5000
Channel Obstruction Removal (Medium)	10490	LF	9.00	94,410
Channel Obstruction Removal (Light)	6585	LF	6.90	45,437
Seeding, Sprigging and Mulching	20	AC	200	400
		Total Installation Cost (Enter in Section 1F)		148,847

Unit Abbreviations:
AC Acre
CY Cubic Yard
EA Each
HR Hour
LF Linear Feet
LS Lump Sum
SF Square Feet
SY Square Yard
TN Ton
Other (Specify)

Section 4 NRCS EWP Funding Priority

Complete the following section to compute the funding priority for the recovery measures in this application (see instructions on page 10).

Priority Ranking Criteria	**Yes**	**No**		**Ranking Number Plus Modifier**
1. Is this an exigency situation?		X		
2. Is this a site where there is serious, but not immediate threat to human life?	X			2e
3. Is this a site where buildings, utilities, or other important infrastructure components are threatened?	X			
4. Is this site a funding priority established by the NRCS Chief?		X		
The following are modifiers for the above criteria			**Modifier**	
a. Will the proposed action or alternatives protect or conserve federally-listed threatened and endangered species or critical habitat?				
b. Will the proposed action or alternatives protect or conserve cultural sites listed on the National Register of Historic Places?				
c. Will the proposed action or alternatives protect or conserve prime or important farmland?				
d. Will the proposed action or alternatives protect or conserve existing wetlands?				
e. Will the proposed action or alternatives maintain or improve current water quality conditions?			e	
f. Will the proposed action or alternatives protect or conserve unique habitat, including but not limited to, areas inhabited by State-listed species, fish and wildlife management area, or State identified sensitive habitats?				

Enter priority computation in Section 1A, NRCS Entry, Funding priority number.

Remarks:

Section 5A Findings

Finding: Indicate the preferred alternative from Section 2 (Enter to Section 1E):

Remove downed trees, branches, and other debris from one side of channel and burn and bury debris in open pasture areas adjacent to or in close proximity to the channel. Work on the mainstem of Gum Gully (W-6) will be accomplished from the east side of the channel from the start point (W-6I) upstream to Hwy 90 and then from the west side of the channel beginning at Hwy 90 upstream to the end point (W-6Q Open) . Work on Lateral L-1 will be accomplished from the west and south side of the channel. This alternative will avoid several wooded areas, protect most natural riparian habitat and provide the best opportunities for burning and burying debris in open pasture areas.

I have considered the effects of the action and the alternatives on the Environmental Economic, Social; the Special Environmental Concerns; and the extraordinary circumstances (40 CFR 1508.27). I find for the reasons stated below, that the preferred alternative:

__X__ Has been sufficiently analyzed in the EWP PEIS (reference all that apply)
Chapter 5.2.2.1.2
Chapter _____
Chapter _____
Chapter _____
Chapter _____

____ May require the preparation of an environmental assessment or environmental impact statement.
The action will be referred to the NRCS State Office on this date:

NRCS representative of the DSR team

Steve Garner, Mark Conkling, and Steve Tully Date: March 2, 2006

Section 5B Comments:

Section 5C **Sponsor Concurrence:**

Sponsor Representative

Title: _____ Date: 3/8/06

Section 6 Attachments:
A. Location Map
B. Site Plan or Sketches
C. Other (explain)

SPONSOR CONCURRENCE WITH REVISIONS

REPRESENTATIVE DATE

SECTION 6

ATTACHMENTS

NOTE TO FILE
DSR 019-05-029R
3/15/06

Upon field review of subject DSR a considerable amount of debris was found to be in the channel upstream of the location where the DSR proposes stopping the work. This debris is consistent with the quantity and frequency of debris within the channel below the location where the original DSR upstream end was identified. There are additional homes and two Parish road culvert crossings in the upstream end of the channel that could be impacted from the channel blockages above the location of the original DSR upstream end.

This was discussed with the program manager and decided to extend the proposed work on this channel upstream to the revised location shown on the DSR. Supplement photographic documentation was also take of this reach and is included in the electronic record.

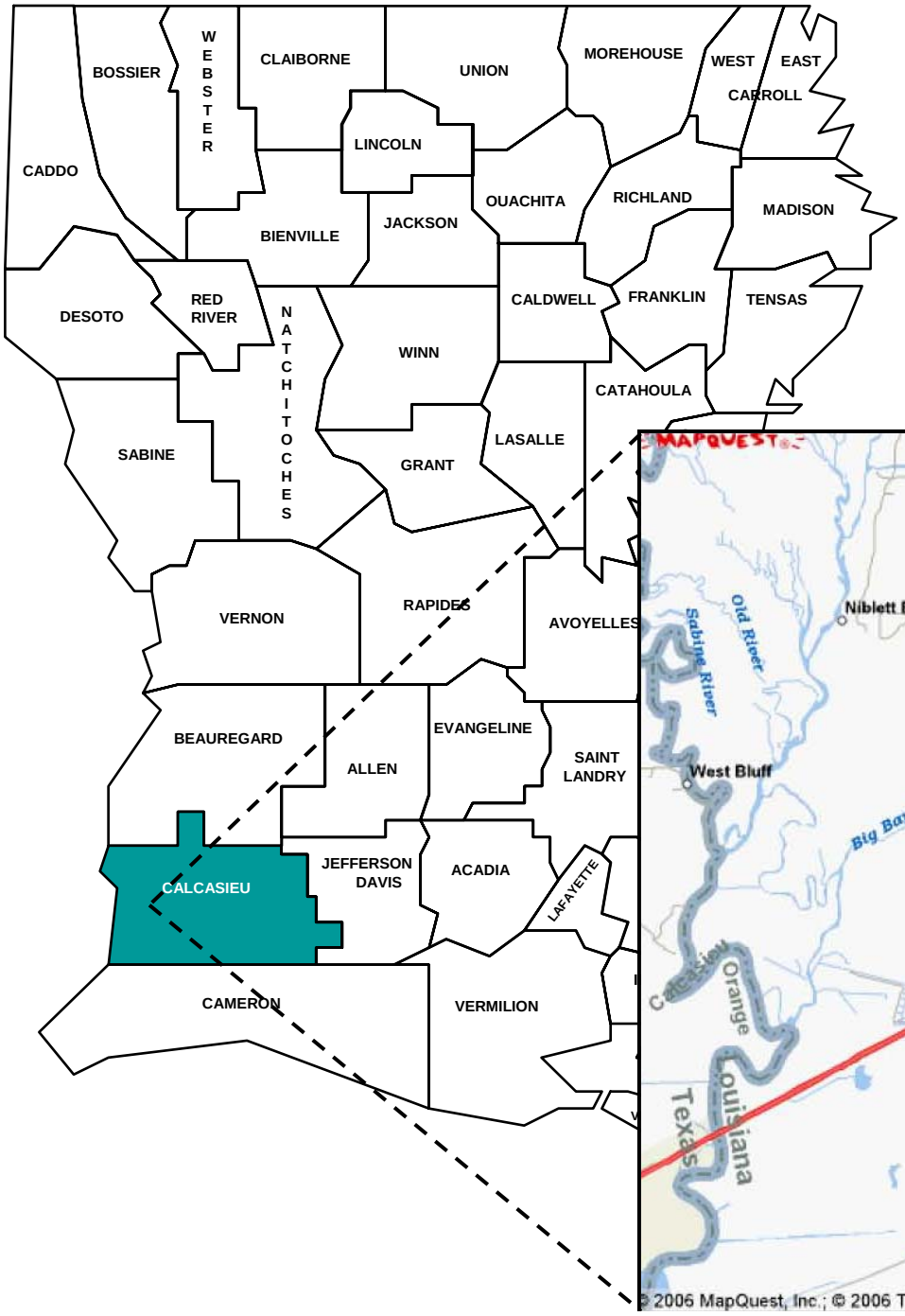
Bradley A. Sticker
ASCE

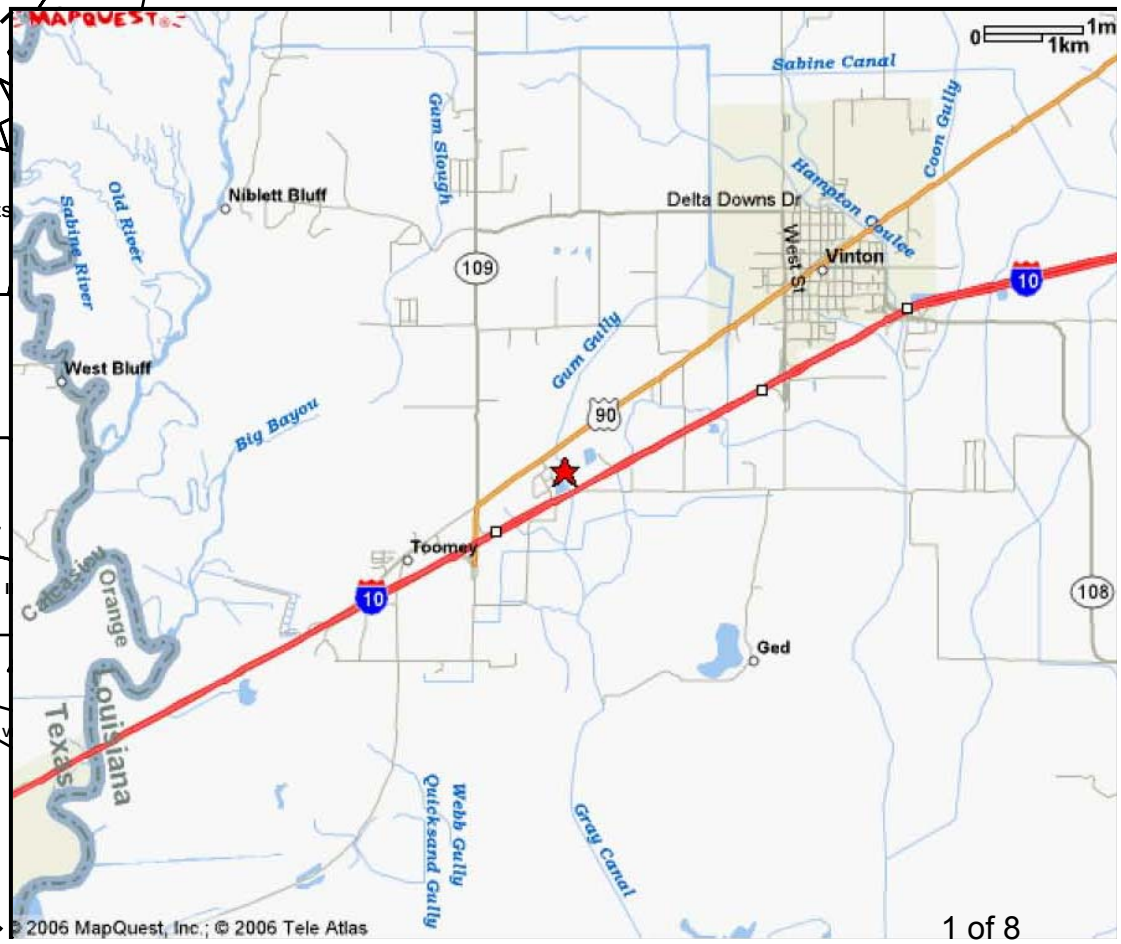
Vicinity Location Map

Calcasieu Parish

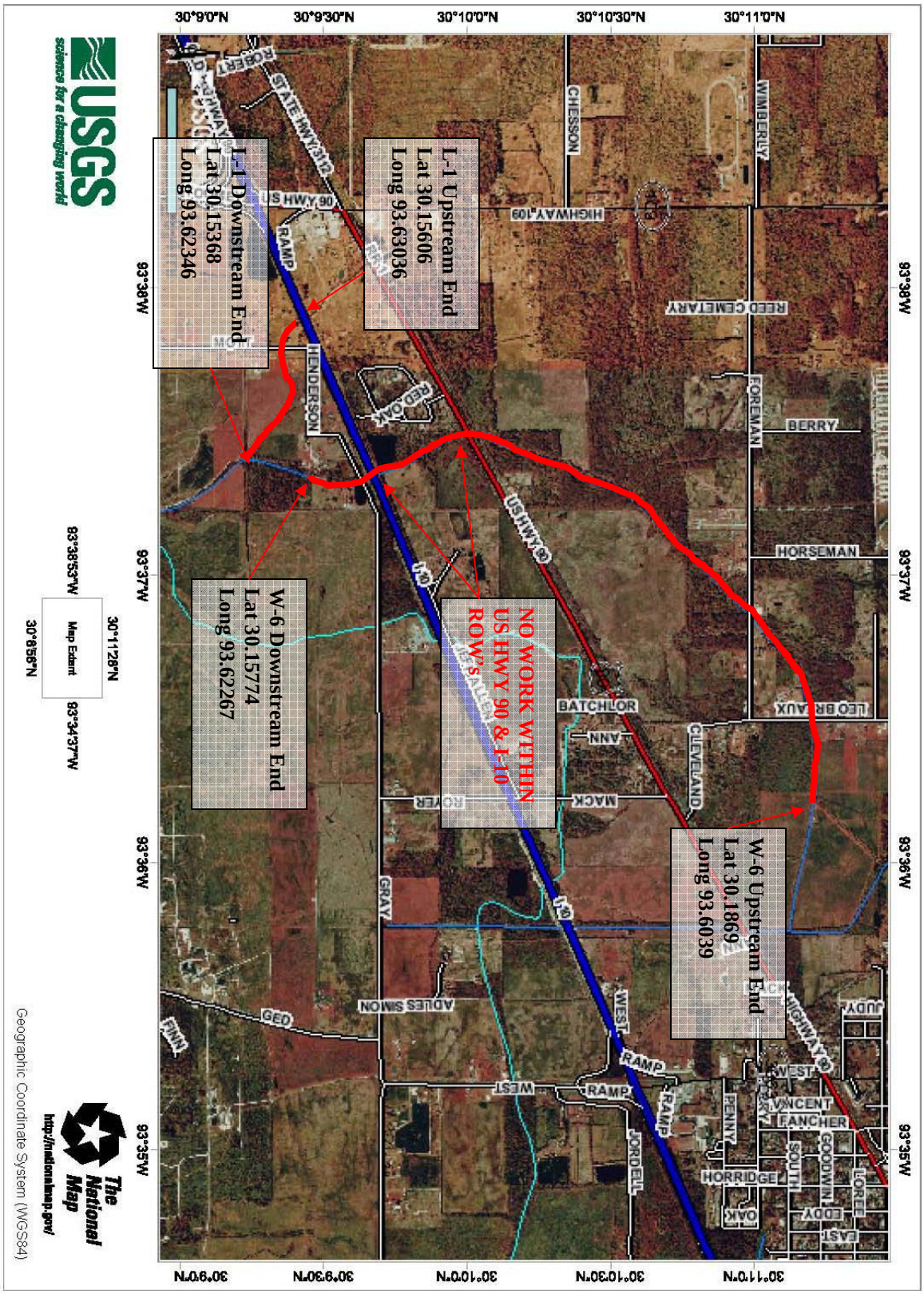
DSR# 019-05-029R

W-6 Gum Gully & L-1



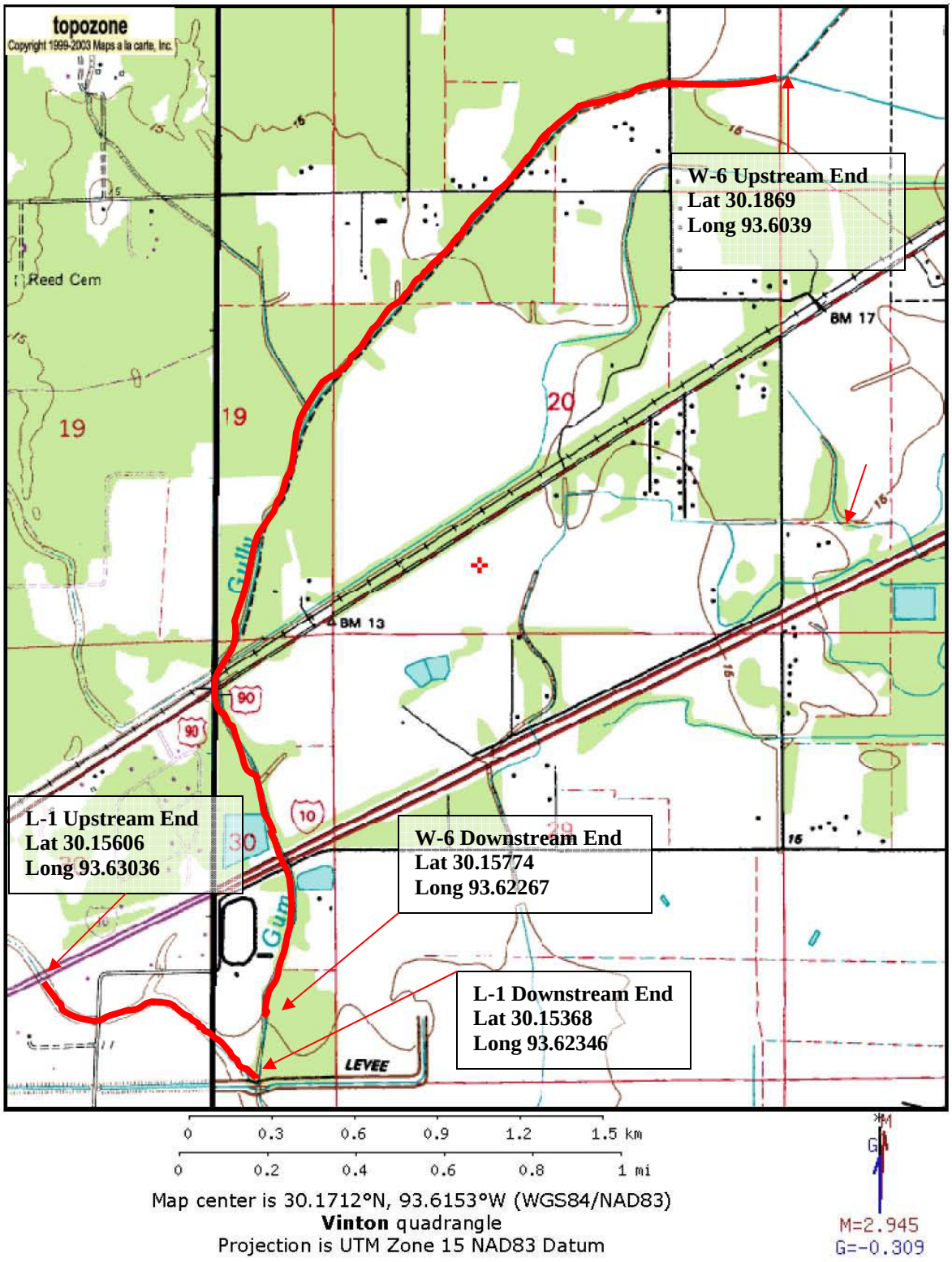


SITE MAP
DSR 019-05-029R
W-6 Gum Gully & L-1
Calcasieu Parish



TOPO MAP
DSR 019-05-029R
W-6 Gum Gully & L-1
Calcasieu Parish

TopoZone - The Web's Topographic Map



Map center is 30.1712°N, 93.6153°W (WGS84/NAD83)
Vinton quadrangle
Projection is UTM Zone 15 NAD83 Datum

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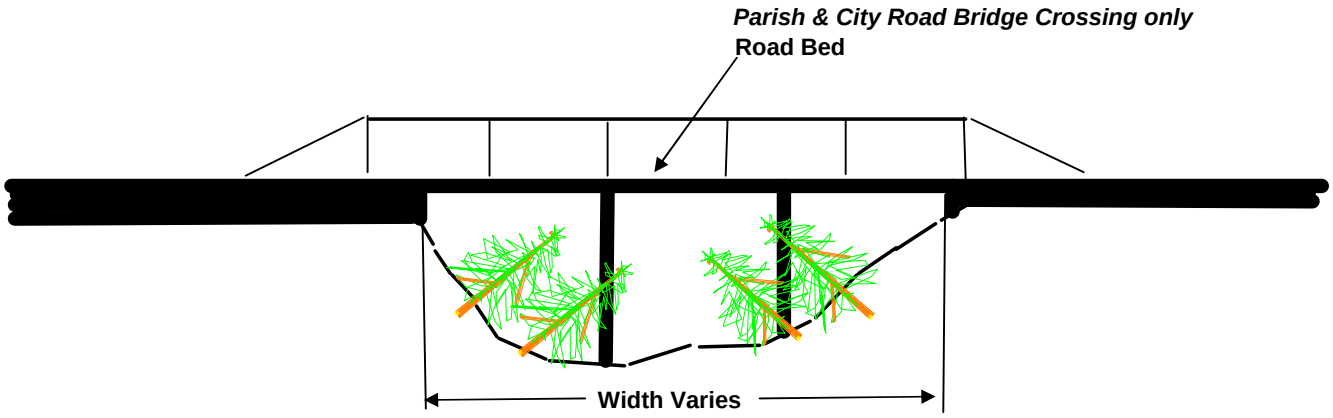
CHANNEL: W-6 Gum Gully & L-1

PARISH/SPONSOR: Calcasieu / Gravity Drainage District 2

Debris Removal



Note: Contract is to remove Debris from upstream and downstream Bridge which includes underside of bridge
Exception: All Crossing which cross State or Federal highways are not included in contract

Typical Road Bridge Crossing
Not to Scale

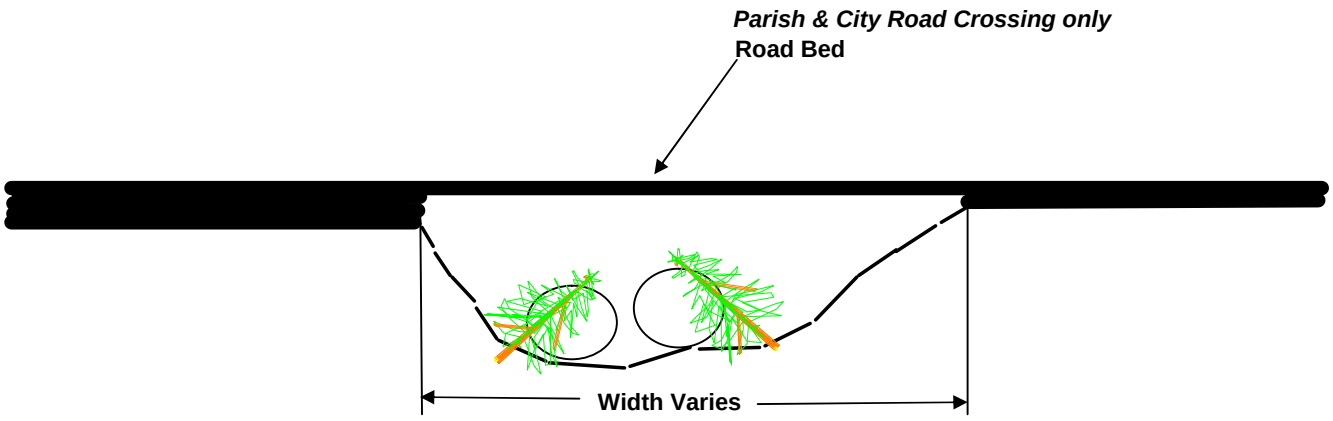
Notice:
48 Hours Before Digging
Call 1-800-272-3020

DSR NO: 019-05-029R

CHANNEL: W-6 Gum Gully & L-1

PARISH/SPONSOR: Calcasieu / Gravity Drainage District 2

Debris Removal



Note: Contract is to remove Debris from upstream and downstream Culverts which includes inside of culverts
Exception: All Crossing which cross State or Federal highways are not included in contract

Typical Road Culvert type Crossing
Not to Scale

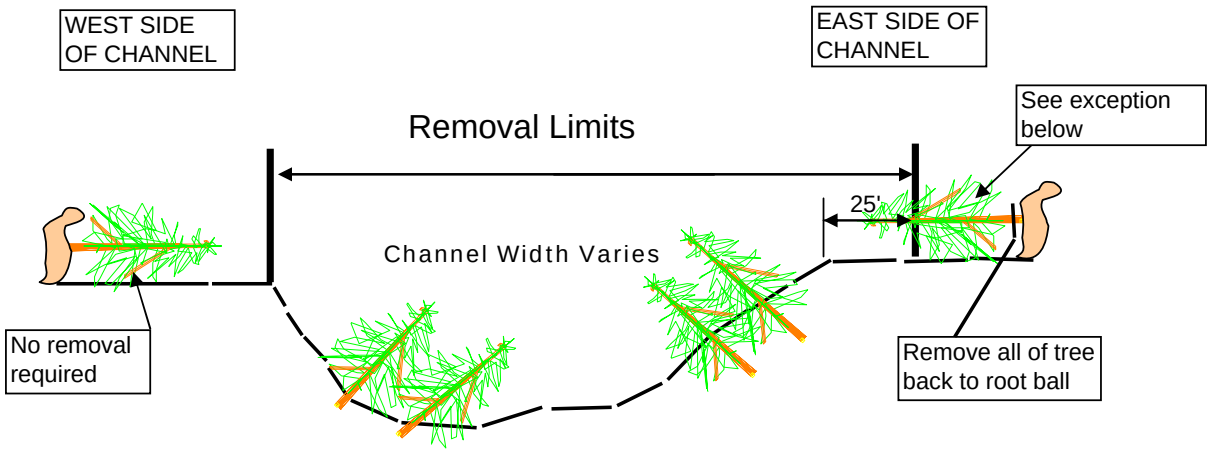
Notice:
48 Hours Before Digging
Call 1-800-272-3020

DSR NO: 019-05-029R

CHANNEL: W-6 Gum Gully & L-1

PARISH/SPONSOR: Calcasieu / Gravity Drainage District 2

Debris Removal



Typ. Sect. W-6 South of HWY 90

Notice:
48 Hours Before Digging
Call 1-800-272-3020

***Note** : Access and work from east side only, except in locations where structures do not permit as concurred in by the COTR*

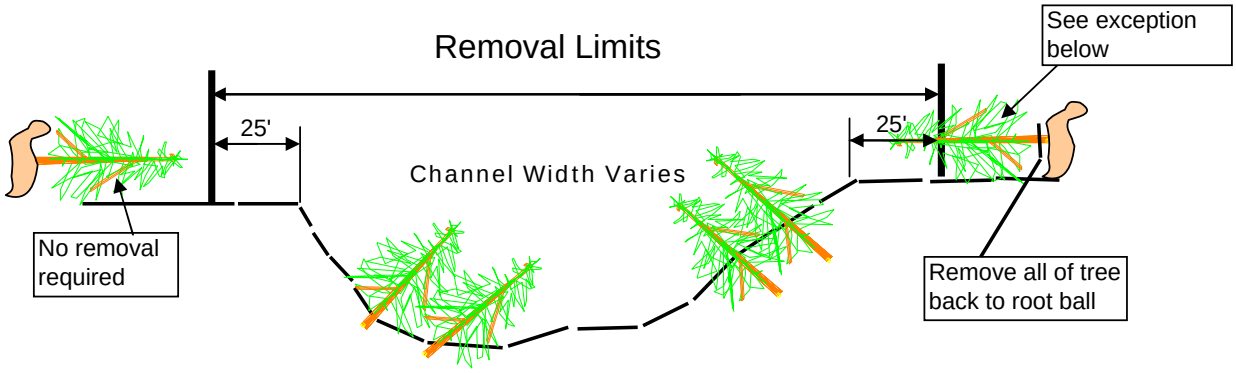
***Exception** it may be possible that trees which were located outside of the the removal limits may have fallen into the removal limits, the entire tree will be removed back to the root ball even if only a portion of the tree is withinthe removal limits*

DSR NO: 019-05-029R

CHANNEL: W-6 Gum Gully & L-1

PARISH/SPONSOR: Calcasieu / Gravity Drainage District 2

Debris Removal



Typ. Sect. W-6 North of Hwy 90

Notice:
48 Hours Before Digging
Call 1-800-272-3020

***Note** : Access and work both sides; however work to be performed on one side only in any reach as concurred in by COTR.*

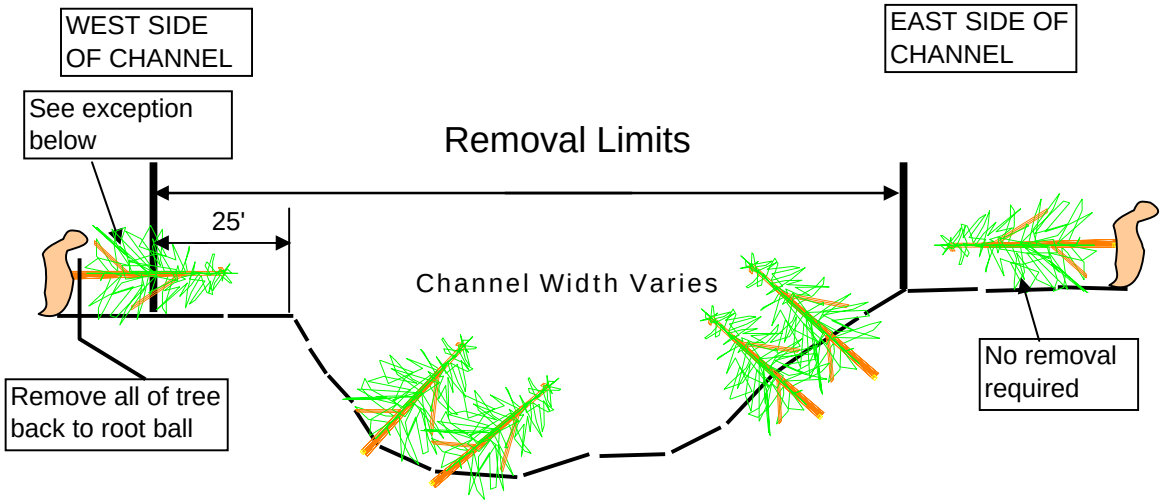
***Exception** it may be possible that trees which were located outside of the the removal limits may have fallen into the removal limits, the entire tree will be removed back to the root ball even if only a portion of the tree is withinthe removal limits*

DSR NO: 019-05-029R

CHANNEL: W-6 Gum Gully & L-1

PARISH/SPONSOR: Calcasieu / Gravity Drainage District 2

Debris Removal



Typ. Sec. L-1

Notice:
48 Hours Before Digging
Call 1-800-272-3020

***Note**: Access and work from west side only, except in locations where structures do not permit as concurred in by the COTR*

***Exception** it may be possible that trees which were located outside of the the removal limits may have fallen into the removal limits, the entire tree will be removed back to the root ball even if only a portion of the tree is withinthe removal limits*

DSR No: 019-05-029R **Alternative Measure**

Section 5 Engineering Cost Estimate Worksheet

Parish: Calcasieu
Channel: W-6
Location: Vinton, W-6 L-1 to W-6 L-1E and W-6I to W of Leo Breaux Rd

Completed By: Steve Garner (Revised BAS 3/15/06) **Date:** 2-Mar-06

Type of Work: Debris Removal

Location of Work:

Township(s)	Range(s)	Section(s)	Quadrangle(s)
10 S	12 W	30	

	W-6		L-1		Reach or Channel Seg	
	Latitude	***Longitude***	***Latitude***	***Longitude***	***Latitude***	***Longitude***
Downstream Start:	30.15774	-93.62267	30.15386	-93.62346		
Upstream End:	30.18690	-93.60390	30.15606	-93.63036		

Estimated Length of Work Segment (ft): 14,450 W-6 2,625 L-1

Item No.	Proposed Recovery Measure	Quantity	Units	Unit Cost	Amount
1	Mobilization & Demobilization	1	LS	$5,000.00	$5,000
2	Channel Obstruction Removal (Medium)	10,490	LF	$9.00	$94,410
3	Channel Obstruction Removal (Light)	6,585	LF	$6.90	$45,437
4	Seeding, Sprigging and Mulching	10	AC	$200.00	$2,000
5					$0

Note: Estimated cost of debris removal includes labor and hauling of material to landfill.

Total Estimated Construction Cost **$146,847**

Performance Time:

Production Rate	Segment Length	Production Time	Contract Time
240 Ft/Day	17,075 Ft	71.15 Days	77 Days
		5 Days Mobil.	

Estimated Cost of Equipment with Labor ***(Per Revised Costs by BAS 2-9-06)***

Description of Work:	Cost per LF
Medium	$9.00
Light	$6.90

Estimated Cost of Seeding with Labor

Segment Length	Segment Width	No.of Segment	Acres	Cost per Ac	**Total Cost**
17,075 Ft.	25 Ft.	1	10	$200	$2,000

Comments:
Selected Alternative involves one side of the channel and 25 ft. of top bank and removing only debris obstructing channel section, NOT floodplains.

DSR No: 019-05-029R | **Preferred Measure**

Section 5 Engineering Cost Estimate Worksheet

Parish: Calcasieu
Channel: W-6
Location: Vinton, W-6 L-1 to W-6 L-1E and W-6I to W of Leo Breaux Rd

Completed By: Steve Garner (Revised BAS 3/15/06) **Date:** 2-Mar-06

Type of Work: Debris Removal

Location of Work:

Township(s)	Range(s)	Section(s)	Quadrangle(s)
10 S	12 W	30	

	W-6		L-1		Reach or Channel Seg	
	Latitude	***Longitude***	***Latitude***	***Longitude***	***Latitude***	***Longitude***
Downstream Start:	30.15774	-93.62267	30.15386	-93.62346		
Upstream End:	30.18690	-93.60390	30.15606	-93.63036		

Estimated Length of Work Segment (ft): 14,450 W-6 2,625 L-1

Item No.	Proposed Recovery Measure	Quantity	Units	Unit Cost	Amount
1	Mobilization & Demobilization	1	LS	$5,000.00	$5,000
2	Channel Obstruction Removal (Medium)	10,490	LF	$9.00	$94,410
3	Channel Obstruction Removal (Light)	6,585	LF	$6.90	$45,437
4	Seeding, Sprigging and Mulching	20	AC	$200.00	$4,000
5					$0

Note: Estimated cost of debris removal includes labor and hauling of material to landfill.

Total Estimated Construction Cost **$148,847**

Performance Time:

Production Rate	Segment Length	Production Time	Contract Time
240 Ft/Day	17,075 Ft	71.15 Days	77 Days
		5 Days Mobil.	

Estimated Cost of Equipment with Labor ***(Per Revised Costs by BAS 2-9-06)***

Description of Work:	Cost per LF
Medium	$9.00
Light	$6.90

Estimated Cost of Seeding with Labor

Segment Length	Segment Width	No.of Segment	Acres	Cost per Ac	**Total Cost**
17,075 Ft.	25 Ft.	2	20	$200	$4,000

Comments:
Selected Alternative involves both sides of the channel and 25 ft. of top bank and removing only debris obstructing channel section, NOT floodplains.

Channel Obstruction Evaluation

SITE INFORMATION

Parish: Calcasieu	Site: W-6	
City: Vinton		
Sponsor: GDD # 2, W # 7	Reach:	From - W-6 I
Date: 2/28/06		To - W-6 Q Open
Evaluation Team: Steve Tully, Mark Conkling, & Steve Garner		

PHOTO NUMBERS AND BRIEF DESCRIPTION

Photo #	Description
565	Heavy Debris
570	LPG Pipeline and I-10 Bridges
579	Railroad Trestle

WAYPOINTS

(CIRCLE location and record in Decimal Degrees)

Start Work (D/S end)	30.15773943, -93.62267490
Midstream	
End Work (U/S end)	30.17211590, -93.62339415

NEARBY AND UPSTREAM STRUCTURES

(Fill in Numbers, Values, and Size)

CHURCHES		SCHOOLS		PUBLIC FACILITIES	
No. of Churches		No. of Schools		No. of Public Facilities	
HOMESITES		**BUSINESSES**			
No. of Homesites		No. of Businesses			
Average Value of Homes (X $1,000)		Size of Businesses		S M L	

STREAM CROSSINGS

(CIRCLE type and write material, size and length)

TYPE	MATERIAL	NUMBER, SIZE, & LENGTH
Bridge	Reinforced Concrete	2, 36ft x 150ft and 1, 24ft x 150 ft
Culverts	Reinforced Concrete	3 - Box Culverts under Hwy 90
Other or None	Creosote Timbers	Railroad Crossing north of Hwy. 90

UTILITIES

(CHECK the location of the utilities in the area and CIRCLE stream orientation)

X	Overhead (Power, Cable, etc.)	(U/S)	D/S
X	Buried (Gas, Sewer, water, etc.)	U/S	(D/S)
	Elevated Cross channel (Water, Gas, etc.)	U/S	D/S

Remarks: Marked - Pipelines south of I-10 frontage road and north of railroad

CHANNEL CHARACTERISTICS

(CHECK appropriate box for slope and fill in dimensions information)

SLOPES		DIMENSIONS		FLOW
	1.5 : 1 or steeper	Top Width (ft.)	40	Is Water Flowing? (YES) NO
X	1.5 : 1 through 3 : 1 Slope	Bottom Width (ft.)	12	Is debris accumulating? (i.e. Leaves, Trash)
	Flatter than 3 : 1	Depth (ft.)	9	(YES) NO

STATEMENT OF PROBLEM

(CHECK the boxes as needed, and CIRCLE the size of debris that applies)

DEBRIS	IN CHANNEL	ACROSS CHANNEL
Pine Trees	X	X
Hardwoods	X	X
Shrubs		

SIZE OF DEBRIS: Light (Moderate) Heavy

BLOCKAGE — % of X-Section Obstructed: Less than 25% (26%-50%) 51%-75% 76%-100%

Other (explain)

WORK METHOD AND LOCATION

(CHECK the box that best applies)

	Within Channel Floating Equipment (i.e. Barge or Marsh Buggy)
	Within Channel Non - Floating Equipment (Excavator/Track-hoe, Spider, etc)
X	From Top Banks

ACCESS TO SITE

(Explain access issues and possible difficulties)

Recommended ~~from the pasture to the southwest~~ east for section south of Hwy 90 and west of section north of Hwy 90

Channel Obstruction Evaluation

SITE INFORMATION

Parish: Calcasieu	Site: W-6 Lateral 1	
City: Vinton		
Sponsor: GDD # 2, W # 7	Reach:	From - W-6 L-1
Date: 2/27/06		To - W-6 L-1E
Evaluation Team: Steve Tully, Mark Conkling, & Steve Garner		

PHOTO NUMBERS AND BRIEF DESCRIPTION

Photo #	Description
540	Confluence w/ W-6
544	Road Crossing
546	Bridge & Tank Car

WAYPOINTS

(CIRCLE location and record in Decimal Degrees)

Start Work (D/S end)	30.15385894, -93.62346062
Midstream	
End Work (U/S end)	30.15606070, -93.63036068

NEARBY AND UPSTREAM STRUCTURES

(Fill in Numbers, Values, and Size)

CHURCHES		SCHOOLS		PUBLIC FACILITIES	
No. of Churches		No. of Schools		No. of Public Facilities	
HOMESITES		**BUSINESSES**			
No. of Homesites		No. of Businesses			
Average Value of Homes (X $1,000)		Size of Businesses		S M L	

STREAM CROSSINGS

(CIRCLE type and write material, size and length)

TYPE	MATERIAL	NUMBER, SIZE, & LENGTH
Bridge	1- Wood	12 ft x 30 ft
Culverts	2-48in RCP	
Other or None	1- Tank Car Culvert	

UTILITIES

(CHECK the location of the utilities in the area and CIRCLE stream orientation)

	Overhead (Power, Cable, etc.)	U/S	D/S
	Buried (Gas, Sewer, water, etc.)	U/S	D/S
	Elevated Cross channel (Water, Gas, etc.)	U/S	D/S

Remarks:

CHANNEL CHARACTERISTICS

(CHECK appropriate box for slope and fill in dimensions information)

SLOPES		DIMENSIONS		FLOW
				Is Water Flowing?
	1.5 : 1 or steeper	Top Width (ft.)	30	YES NO
X	1.5 : 1 through 3 : 1 Slope	Bottom Width (ft.)	6	Is debris accumulating? (i.e. Leaves, Trash)
	Flatter than 3 : 1	Depth (ft.)	8	YES NO

STATEMENT OF PROBLEM

(CHECK the boxes as needed, and CIRCLE the size of debris that applies)

DEBRIS	IN CHANNEL	ACROSS CHANNEL	SIZE OF DEBRIS			BLOCKAGE
						% of X-Section Obstructed:
Pine Trees	X	X	Light	Moderate	Heavy	Less than 25% 26%-50% 51%-75% 76%-100%
Hardwoods						
Shrubs						

Other (explain)

WORK METHOD AND LOCATION

(CHECK the box that best applies)

	Within Channel Floating Equipment (i.e. Barge or Marsh Buggy)
	Within Channel Non - Floating Equipment (Excavator/Track-hoe, Spider, etc)
X	From Top Banks

ACCESS TO SITE (Explain access issues and possible difficulties)

Pasture on the southside of L-1

Recommended from the pasture to the southwest

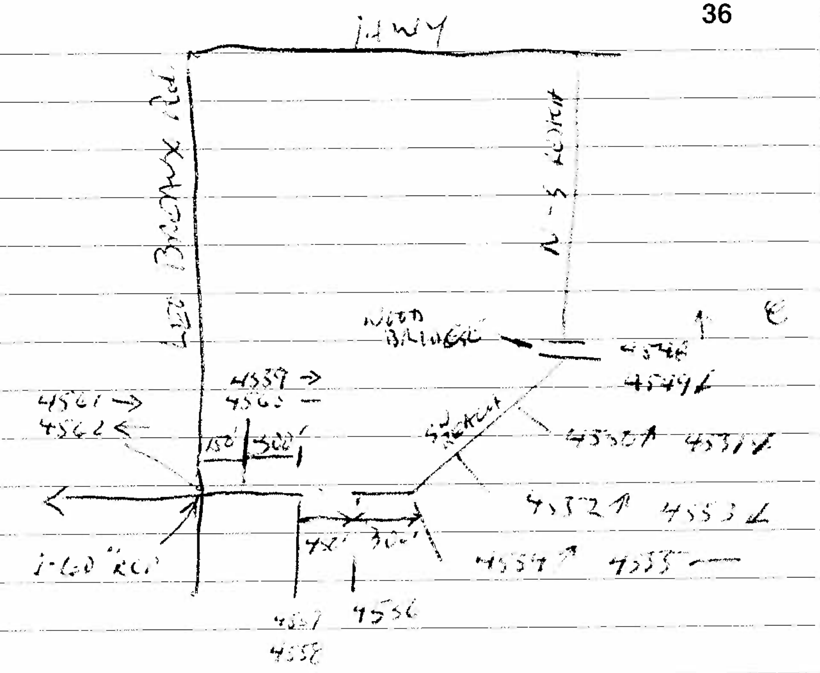
Report No. Cawley		Date 2/6/06		19	
Weather		Min. Temp		Max. Temp	
Precip.	Inches	Storm Period	A.M. P.M.		A.M. P.M
Shift No.	App. Time	A.M. P.M.	To		A.M. P.M
Work Period		A.M. P.M.			A.M. P.M

WORK FORCE

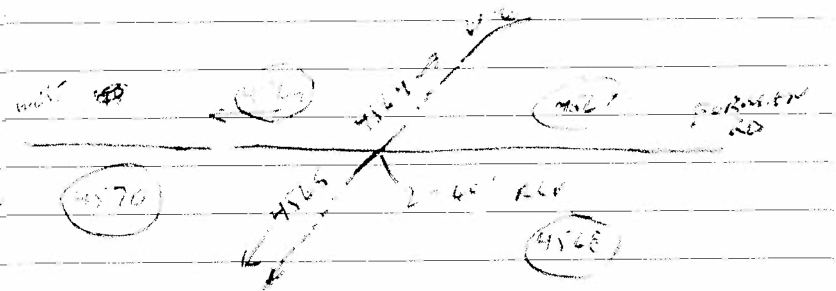
Supt.	Skilled	Laborer
Foreman		

Estimated Quantities of Pay Work Accomplished

ITEM NO.	ITEM	UNIT	QUANTITY



4563 - Facing N on Lee Bradley Rd



NARRATIVE

Site Visit - Gum Gully 4-6

N-S segment (South of Hwy ___)

#4546 - Facing N - no obstruction

#4547 - Facing S - Typical obstruction on this reach spaced ≈ 500-700' apart.

#4548 - Typical N sec. obst. ≈ 500' apart 1 ATV. My opinion - Need to work